

Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

### 1/68

120 180 240 300 360 9 GTCCTTCCACCATGCACTCGCTGGGCTTCTTCTGTGGCGTGTTCTCTGCTGCCGCGTG CGCTGCTCCCGGGGTCCTCGCGAGGCGCCCGCCGCCGCCGCCGCCGCCTTCGAGTCCGGACTCG TGGAGAGCCTGCGCCTCGGGCTGCGCCCGGTTCCGAA TACGTTCGTTTCTAGACC AGGAGCAGTTACGGTCTGTGTCCAGTGTAGATGAACTCATGACTGTACTCTACCCAGAAT ICCTCGTCAATGCCAGACACAGGTCACATCTACTTGAGTACTGACATGAGATGGGTCTTA **ATTGGAAAATGTACAAGTGTCAGCTAAGGAAAGGAGGCTGGCAACATAACAGAGAACAG** TAACCTTTTTACATGTTCACAGTCGATTCCTTTCCTCCGACCGTTGTATTGTCTTGTCC CCAACCTCAACTCAAGGACAGAAGAGACTATAAAATTTGCTGCAGCACATTATAATACAG GGTTGGAGTTGAGTTCCTGTCTTCTCTGATATTTTAAACGACGTCGTGTAATATTATGTC Ø Ö ⋖ 团 Ω ß z ഗ ø Ö ø Ø ø ø Ø Σ ⋈ > ď  $\vdash$ 口 Ö വ ø ഠ Ö Ø Гщ Þ 闰 Ω × ſτι Д Ç >  $\alpha$ Ö Ø ഗ ď, П Ы 口  $\Box$ ß Ø ഗ ፈ Д  $\triangleright$ C 出 Ŋ Σ G പ്പ Σ ப 301 121 181 241 61

## FIG. 1A

Н

Z

ď

ø

ø

Ľτι

¥

Н

 $\vdash$ 

回

闰

വ

ß



Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6
REPLACEMENT SHEET

### 2 / 68

420 480 540 099 900 GTATAGATGTGGGGAAGGAGTTTGGAGTCGCGACAAACACCTTCTTTAAACCTCCATGTG CATATCTACACCCCTTCCTCAAACCTCAGCGCTGTTTGTGGAAGAAATTTGGGAGGTACAC TGTCCGTCTACAGATGTGGGGGTTGCTGCAATAGTGAGGGGGCTGCAGTGCATGAACACCA ACAGGCAGATGTCTACACCCCCAACGACGTTATCACTCCCCGACGTCACGTACTTGTGGT <u> AACCAGTAACAATCAGTTTTGCCAATCACACTTCCTGCCGATGCATGTCTAAACTGGATG</u> TTGGTCATTGTTAGTCAAAACGGTTAGTGTGAAGGACGGCTACGTACAGATTTGACCTAC Ö Д Ö 团 z Д × Ŋ O Σ Ы Ы C Ē Д O Ö  $\triangleright$ ш  $\vdash$ H z ×  $\vdash$ ഗ  $\vdash$  $\alpha$ ø z 闰 ⋈ C ſτι Ö Ö 闰 П Ö z ⊱ ט  $\Box$ ш × ഗ Ö Ц ഗ 361 481 541 601 421

# FIG. 1B

X L

ഗ

Σ

 $\alpha$ 

Ö

ß

耳

z

ø

ഗ



Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

3 / 68

720 780 840 900 960 TTTACAGACAAGTTCCATTATTAGACGTTCCCTGCCAGCAACACTACCACAGTGTC **AAATGTCTGTTCAAGTAAGGTAATAATCTGCAAGGGACGGTCGTTGTGATGGTGTCACAG** AGGCAGCGAACAAGACCTGCCCCACCAATTACATGTGGAATAATCACATCTGCAGATGCC TCCGTCGCTTGTTCTGGACGGGGTGGTTAATGTACACCTTATTAGTGTAGACGTCTACGG TGGCTCAGGAAGATTTTATGTTTTCCTCGGATGCTGGAGATGACTCAACAGATGGATTCC **ACCGAGTCCTTCTAAAATACAAAAGGAGCCTACGACCTCTACTGAGTTGTCTACCTAAGG** ATGACATCTGTGGACCAAACAAGGAGCTGGATGAAGAGACCTGTCAGTGTGTCTGCAGAG 
 PACTGTAGACACCTGGTTTGTTCCTCGACCTACTTCTCTGGACAGTCACAGACGTCTC
 GCCCCGAAGCCGGACGGTCGACACCTGGGGTGTTTCTTGATCTGTCTTTGAGTACGGTCA CGGGGCTTCGGCCTGCCAGCTGTGGACCCCACAAAGAACTAGACAGAAACTCATGCCAGT Ø  $\alpha$ Ö Ö  $\Box$ > U 二 Ø ഗ z Ö Д Д z Ω H Ы ⋈ Ö 団 Σ വ 团 ø ഷ  $\Box$ Д  $\alpha$ Z ഗ 口 ⊱ ш  $\boldsymbol{\vdash}$ ഗ വ U Σ Z 出 Н [I Д ×  $\Box$ Ö O Z 臼  $\mathbf{c}$ O 661 721 781 841 901

C

O

O

ഗ

Z

Д

Ц

凹

×

出

Д,

Ö

ø

Ö



Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6
REPLACEMENT SHEET

### 4 / 68

1140 1020 1080 1200 1260 CACAGACATTTTTGTTTGAGAAGGGGTCGGTTACACCCCGGTTGGCTCTTAAACTACTTT TGTGTACGGTCACACATACATTTTCTTGGACGGGTCTTTAGTTGGGGGATTTAGGACCTT GTCCTAAAAGTATATCACTTCTTCACACACCAACACAGGGAAGTATAACCGTTTCTGGTG GTGTCTGTAAAAACAACTCTTCCCCAGCCAATGTGGGGCCCAACCGAGAATTTGATGAAA ACACATGCCAGTGTGTATGTAAAAGAACCTGCCCCAGAAATCAACCCCTAAATCCTGGAA AATGTGCCTGTGAATGTACAGAAAGTCCACAGAAATGCTTGTTAAAAAGGAAAGAAGTTCC TTACACGGACACTTACATGTCTTTCAGGTGTCTTTACGAACAATTTTCCTTTCTAGG TGGTGGTTTGTACGTCGACAATGTCTGCCGGTACATGCTTGGCGGTCTTCCGAACACTCG CAGGATTTTCATATAGTGAAGAGTGTGTCGTTGTGTCCCTTCATATTGGCAAAGACCAC ACCACCAAACATGCAGCTGTTACAGACGGCCATGTACGAACCGCCAGAAGGCTTGTGAGC Ö 团 Д z بتا 臼 口 Ö Д Ø z O Н മ്പ П Z, Z Z O Ö 24 ₽  $\mathcal{O}$ Д ¥ U  $\circ$  $\mathcal{O}$ Ø Д ß Д  $\alpha$ വ പ്പ ĸ 口 Ö ഗ U Z O 1081 1141 1021 1201 961

### FIG. 10

O

ഗ

а

>

Ö

吆

C

凶

闰

U



Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

5 / 68

1500 1620 1320 1380 1440 1560 1674 GTTTTCCGGAGAACATTTCTGACCAAAAGACGGTTACTGGTTTGTCGGTTCTAAAAGGAG TTTACTCGATTCTAACATGACAAAGGTCAAGTAGCTAAAAGATAATACCTTTTGACACA TGCCACAGTAGAACTGTCTGTGAACAGAGAGACCCTTGTGGGGTCCATGCTAACAAAGACA ACGGTGTCATCTTGACAGACACTTGTCTCTGGGAACACCCAGGTACGATTGTTTCTGT **AAA**GTCTGTCTTTCCTGAACCATGTGGATAACTTTACAGAAATGGACTGGAGCTCATCTG TTTCAGACAGAAAGGACTTGGTACACCTATTGAAATGTCTTTACCTGACCTCGAGTAGAC CAAAAGGCCTCTTGTAAAGACTGGTTTTCTGCCAATGACCAAACAGCCAAGATTTTCCTC AACACTAAAGAAATTTTCTTACTGATATTAAATAAAGGTGATTTTTATAACAAGACG ATTCATTTTTATAGCAACAACAATTGGTAAAACTCACTGTGATCAATATTTTATATCAT TAAGTAAAAATATCGTTGTTGAACCATTTTGAGTGACACTAGTTATAAAAATATAGTA Σ 1261 1441 1501 1381 1561 1621 1321

### FIG. 1E



Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2 Docket No.: PF112P6 REPLACEMENT SHEET

6 / 68

	. CGAGGCCACGGCTTATGCAAGCAAAGATCTGGAGGAGCAGTTACGGTCTGTGTCCAGTGT ++++	GCAGTTACGGTCTGTGTCCAGTGT
61	. AGATGAACTCATGACTGTACTCTACCCAGAATATTGGAAAATGTACAAGTGTCAGCTAAAG	GAAAATGTACAAGTGTCAGCTAAG
121	M T V L Y P E Y W K M Y K C Q L R GAAAGGAGGCTGGCAACATAACAGAAGAACAGGCCAACCTCAAGGACAGGACAAGACA	K M Y K C Q L R
	KGGWQHNREQANLNSRTEET	L N S R T E E T
181	ΑŢ	CTTGAAAAGTATTGATAATGAGTG
	I K F A A A H Y N T E I	I L K S I D N E W
241	GAGAAAGACTCAATGCCACGGAGGTGTGTATAGATGTGGGGAAGGAGTTTGGAGT	AGATGTGGGGAAGGAGTTTGGAGT
	R K T Q C M P R E V C I D V G K E	D V G K E F G V
301	. CGCGACAAACACCTTTTAAACCTCCATGTGTGTCCGTCTACAGATGTGGGGGTTGCTG	cgrctacagargrgggggrrgcrg
	A T N T F F K P P C V S	V Y R C G G C C



Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2 Docket No.: PF112P6 REPLACEMENT SHEET

7 / 68

CAA	TAG	TGA	GAGGG	GCI	CAATAGTGAGGGGCTGCAGGCATGAACACCAGCACGAGCTACCTCAGCAAGACGTTATT	GTG	CAT	GAA	CAC	CAG	CAC	GAG	CTA	CCL	CAG	CA.A.	GAC	GTT	ATT
Z	ູ່ຜ	Li Li	שׁ		α	ט	Σ	Z	+   [+ 	S	   [ <del> </del>	ຸດ	! ! ≯: <del>!</del>	ijIJ	ເ ເ	TSTST	! ! [→ !		+  -  -  -  -
TGA	AAT	TAC	'AGT	သည်း	TGAAATTACAGTGCCTCTCTCTCAAGGCCCCAAACCAGTAACAATCAGTTTTGCCAATCA	CTC	TCA	AGG	- CCC	CAA	ACC	AGT	AAC	AAT	CAG	LLL	TGC	CAA	TCA
臼	Н	₽	>	Ωı	Ц	- თ	Ø	ט	д	×	д	>	<b>⊢</b>	н	വ	- <u>F</u>	A	z	μ
CAC	TTC	CTG	: : :	ATG:	CACTTCCTGCCGATGCTTAAACTGGATGTTTACAGACAAGTTCATTCCATTATTAG	GTC	TAA	ACT	GGA	TGT	TTA	CAG	ACA	AGT	TCA	TTC	CAT	TAT	TAG
H	ຶ່ນ	ט	<u> </u> ~	ט	Σ	S	X	ı	ĻΩ		∀	ద	   0 		H H	າ - ເນ	   H	+ H H H	+ ! 24
ACG	TTC	CCT		'AGC	ACGTTCCCTGCCAGCAACACTACCAGTGTCAGGCAGCGAACAAGACCTGCCCCACCAA	ACT	ACC	ACA	GTG	TCA	299	AGC	GAA	CAA	GAC	CTG	CCC	CAC	CAA
<u> </u>		. 1	і - +	4	S L P A T L P Q C Q A A N K T C P T N	- - - -	ı ц ц	ļα	ָל ט	ļ a	- A	A	- Z +	   X	  -  -	+ D	口口	   [ <del> </del>	+ - - -
TTA	CAT	GTG	GAP	TAA	TTACATGTGGAATAATCACATCTGCAGATGCCTGGCTCAGGAAGATTTTATGTTTTCCTC	CAT	CTG	CAG	ATG	CCT	SGC	TCA	GGA	AGA'	TTT'	TAT	GTT	TTC	cIC.
	   \( \S	! 	N M	; Z	 	I + ⊢-I I		   24	ל י י			ĺα	   [12]  -	i A	   [±,	A Q E D F M	ı L	+ 	<del>င်္</del> လ
GGA	TGC	TGG	AGA	TGA	GGATGCTGGAGATGACTCCATGACATCTGTGGACCAAACAAGGAGCT	AAC.	AGA	TGG.	ATT	CCA	TGA	CAT	CTG	TGG	ACC	AAA(	CAA	GGA	GCT
Ω	Į Ą	ש	D	D	A G D D S T D G F H D I C G P N K E L	! + [-+ !	Ω	ָ ט	ተ ነ [ኋ	H	Ω		່ ບ <del>•</del>	ָט ו	і Ц	+ Z	   X	1 1 [±] 1	+ - 1

Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2 Docket No.: PF112P6 REPLACEMENT SHEET





721	GTCAGIGIGICIGCAGAGCGGGGCTICGGCCTG	AGCTGTGGAC
	DEETCQCVCRAGLRPA	
781	CCACAAAGAACTAGACAGAACTCATGCCAGTGTGTGTGTAAAAAAAA	TCTTCCCCA
	H K E L D R N S C Q C V C K N K L F P S	S G H T
841	AACCGAGAATTTGATGAAAACACATGCCAGTGTG	IGTAAAAGAA
	Q C G A N R E F D E N T C Q C V	+
901	. CTGCCCCAGAAATCAACCCCTAAATCCTGGAAAATGTGCCTGTGAATGTACAGAAAGTCC	, ACAGAAAGTC
	CPRNOPLNPGKCACECTESP	D S H
961	Ö	GTTACAGAC
	Q K C L L K G K K F H H Q T C S C	.+
1021	GCCATGTACGAACCGCCAGAAGGCTTGTGAGCCAGGATTTTCATATAGTGAAGAAGTGTG	, BAAGAAGTGT
	PCTNRQKACEPGFSYSEE	H





Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2 Docket No.: PF112P6 REPLACEMENT SHEET

### 9 / 68

1081	TCATATTGGCAAAGACCACAAATGAGCTAAGATTGTACTGTTTT
	R C V P S Y W Q R P Q M S *
1141	GTTCATCGATTTTCTATTATGGAAAACTGTGTTGCCACAGTAGAACTGTCTGT
1201	GAGACCCTTGTGGGTCCATGCTAACAAAGACAAAAGTCTGTCT
1261	. TAACTTTACAGAAATGGACTGGAGCTCATCTGCAAAAGGCCTCTTGTAAAGACTGGTTTT +++++++
1321	. CTGCCAATGACCAAACAGCCAAGATTTTCCTCTTGTGATTTTCTTTAAAAGAATGACTATA ++++++++
1381	. TAATTTATTTCCACTAAAATATTGTTTCTGCATTCATTTTTATAGCAACAACAATTGGT
1441	. AAAACTCACTGTGATCAATATTTTTTATATCATGCAAAATATGTTTAAAATAAAATGAAAA
1501	TTGTATTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



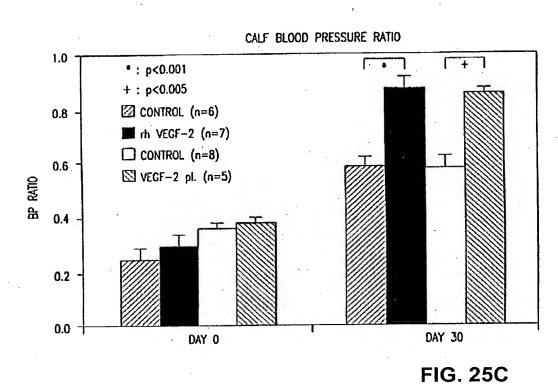
Appl. No.: 09/921,143 Inventor: Timothy A. Coleman

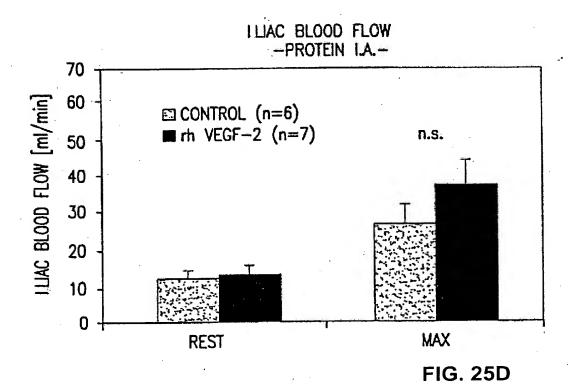
Filed: August 3, 2001

Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

33 / 68





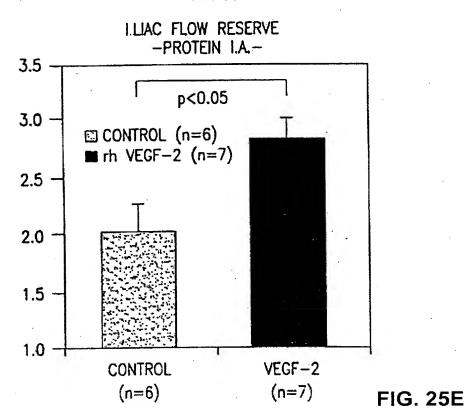
**BEST AVAILABLE COPY** 

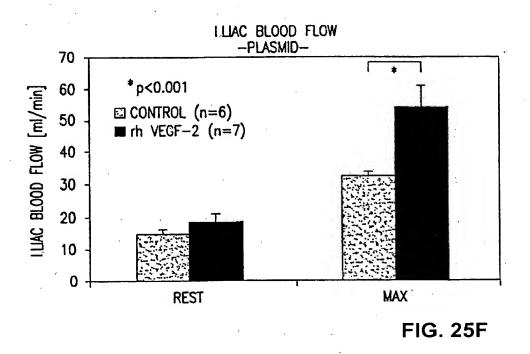


Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6
REPLACEMENT SHEET

34 / 68





BEST AVAILABLE COPY



Appl. No.: 09/921,143 Inventor: Timothy A. Coleman Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

35 / 68

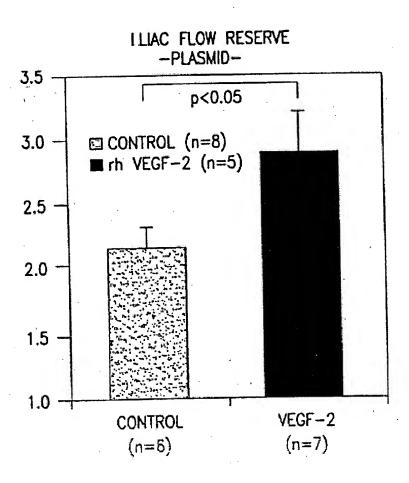


FIG. 25G



Appl. No.: 09/921,143 Inventor: Timothy A. Coleman

Filed: August 3, 2001 Title: Vascular Endothelial Growth Factor 2

Docket No.: PF112P6 REPLACEMENT SHEET

36 / 68

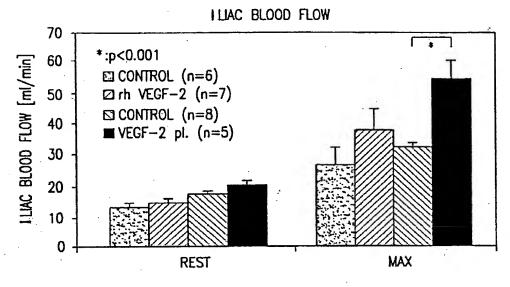
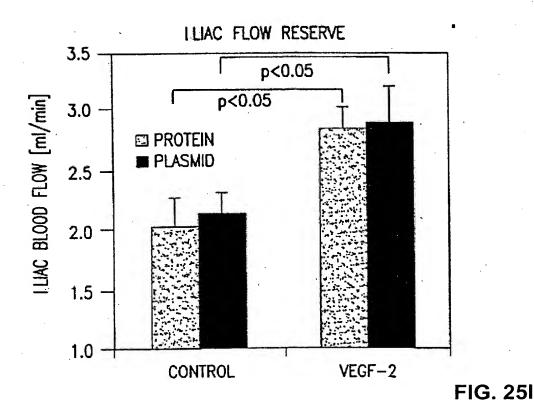


FIG. 25H



**BEST AVAILABLE COPY**